

Khalid Sultan

List of Publications

a. Refereed Journals:

- Abu Doush, I., **Sultan, K.**, Alsaber, A., Alkandari, D., Abdullah, A. (2024) *Enhanced Jaya Optimization for Improving Multi-Layer Perceptron Neural Network in Urban Air Quality Prediction*. Journal of Intelligent Systems. In press.
- Abu Doush, I., **Sultan, K.**, Al-Betar, M. A., Almeraj, Z., Alyasseri, Z. A. A., & Awadallah, M. A. (2023). *Web accessibility automatic evaluation tools: to what extent can they be automated?*. CCF Transactions on Pervasive Computing and Interaction, 1-33. <https://doi.org/10.1007/s42486-023-00127-8>
- Alsaber, A., Alsahli R., Al-Sultan A. T., Abu Doush, I., **Sultan, K.**, Alkandari, D. Coffie D., Setiya P. (2023) *Evaluation of Various Machine Learning Prediction Methods for Particulate Matter (PM10) in Kuwait*, International Journal of Information Technology. 15, 4505–4519. <https://doi.org/10.1007/s41870-023-01521-2>
- Mansouri, N., **Sultan, K.**, Ahmad, A., Alseadoon, I., & Alkhalil, A. (2022). *A Deep Learning Framework for COVID-19 Diagnosis from Computed Tomography*. Intelligent Automation & Soft Computing, 34(2). <https://doi.org/10.32604/iasc.2022.025046>
- **Sultan K.**, Bentahar J., Yahyaoui H., & Mizouni R., (2021) *Model checking agent-based communities against uncertain group commitments and knowledge*. Expert Systems with Applications. 177, 114792. <https://doi.org/10.1016/j.eswa.2021.114792>
- Ahmad A., Alkhalil A., Altamimi A. B., **Sultan K.**, & Khan W., (2021), *Modernising Legacy Software as Context-sensitive and Portable Mobile-enabled Application*. IT Professional., IEEE, 25(1), 42-50. <https://doi.org/10.1109/MITP.2020.2975997>
- Alseadoon, I., Ahmad, A., Alkalel, A., **Sultan, K.** (2021). *Migration of Existing Software Systems to Mobile Computing Platforms: A Systematic Mapping Study*. Frontiers of Computer Science, 15, 152204. <https://doi.org/10.1007/s11704-019-8166-5>
- Alreshidi A., Ahmad A., Altamimi A. B., **Sultan K.**, & Mehmood R. (2019). *Software Architecture for Mobile Cloud Computing Systems*. Future Internet, 11(11), 238. <https://doi.org/10.3390/fi11110238>

b. Conferences:

- Abu Doush, I., **Sultan, K.**, Alsaber, A., Abdullah, A., Alkandari, D. (2023). *Improving Neural Network using Jaya Algorithm with Opposite Learning for Air Quality Prediction*. Intelligent Systems Conference 2023 (IntelliSys 2023), Amsterdam, Netherlands (September 7-8, 2023). pp. 1-11.
- Gharaibeh, B., Al-Tarawneh, H. M., **Sultan, K.**, Odeh, N., Salaimeh, A. A. (2023). *An AHP-based Decision-Making Model Evaluating the Use of Augmented Reality for Building Maintenance Systems*. The 50th International Conference on Computers and Industrial Engineering (CIE50), Sharjah-Dubai, United Arab Emirates (October 30–November 2, 2023.) pp. 1-10.
- Abu Doush, I., **Sultan, K.** (2022). *Can I Learn During COVID-19: Web Accessibility of Children Learning Resources?*. Computer Applications & Technological Solutions (CATS 2022). Kuwait (March 13-14, 2022), pp 1-5.

- Ahmad, A., Alseadoon, I., Alkalel, A. & **Sultan, K.** (2019). *A Framework for the Evolution of Legacy Software Towards Context-aware and Portable Mobile Computing Applications*. In the Proc. of SERP'19 Conference of Software Engineering Research and Practice, (pp 3-9). Retrieved from <https://csce.ucmss.com/cr/books/2019/LFS/CSREA2019/SER2550.pdf>

b. Book Chapters:

- **Sultan, K.**, Alsarraf A., Alsarraf A., Alfeeli A., and Alghanemi A. (2024) *DriveHarmony: An AI-based Safety Assistant Driving System*. Advances in Machine Learning for Real World Applications by Springer. <https://link.springer.com/book/9789819718993>